

**METHOD AND DEVICE FOR ESTABLISHING COMMUNICATION  
LINKS BETWEEN MOBILE COMMUNICATION SYSTEMS**

**Abstract of the Disclosure**

A wireless communication network includes a plurality of mobile nodes each including a transceiver, a phased array antenna connected to the transceiver, and a controller connected to the transceiver. The controller schedules a respective semi-permanent time slot for each time frame to establish a communication link with each neighboring mobile node and leaves at least one available time slot in each time frame. Each time frame has up to N semi-permanent time slots and at least  $2N-1$  available time slots. The controller also schedules the at least one available time slot to also serve the communication link with a neighboring mobile node based upon link communications demand. The phased array antenna is aimed by the controller towards each neighboring mobile node during communication therewith.